

LOW TEMPERATURE GLASS FOR INSULATION FIBER

Abstract

Glass fibers, particularly those prepared by flame attenuation, display excellent chemical resistance to both acids and moisture while being highly biosoluble at the same time. The glass compositions used to make the fibers consisting essentially of: 38-52 wt% SiO_2 , 8-17 wt% Al_2O_3 , 7-17 wt% B_2O_3 , 0-7 wt% RO, wherein R is Ca, Mg, or a combination thereof, 20-31 wt R^1_2O , wherein R^1 is Na, K, or a combination thereof, and 0-2.5 wt% Li_2O , and has a Final Aged Tensile Value of at least 3000; a HTV of 1700° F or less and a liquidus temperature at least 200° F lower than HTV.

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